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Test Report on Cement

Project	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s. K Damodar & Co.
Sample ID	Cement
Date of Sample Tested	18/06/2018
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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Test report on Compressive strength of concrete cubes

Project	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s. K Damodar & Co.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18/06/2018	25/06/2018	7 days	8.160	22500	298	13.24	13.17
2	18/06/2018	25/06/2018	7 days	8.180	22500	296	13.16	
3	18/06/2018	25/06/2018	7 days	8.168	22500	295	13.11	

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Project	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s. K Damodar & Co.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18/06/2018	16/7/2018	28 days	8.120	22500	450	20.00	20.12
2	18/06/2018	16/7/2018	28 days	8.160	22500	455	20.22	
3	18/06/2018	16/7/2018	28 days	8.164	22500	453	20.13	

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Project	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s. K Damodar & Co.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18/06/2018	25/06/2018	7 days	8.158	22500	305	13.56	13.45
2	18/06/2018	25/06/2018	7 days	8.162	22500	302	13.42	
3	18/06/2018	25/06/2018	7 days	8.169	22500	301	13.38	

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s. K Damodar & Co.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	sand/M sand		Proposed Use	Drain
Location/Source	At site/Plant		Date of Sampling	27/06/2018
Period of Soaking	24 hours		Date of Testing	27/06/2018

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		642	666	662	
B	Weight of oven - dry sample gm.		632	656	650	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1681	1693	1696	
E	Bulk specific gravity	B / (C + A - D)	2.678	2.645	2.697	**2.673**
G	Absorption (%)	(A - B) *100 / B	1.582	1.524	1.846	**1.651**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
Consultants	Tejus Consultants, Bangalore
Contractor	M/s. K Damodar & Co.

SIEVE ANALYSIS

Total Weight:	3000	gms			
Type of Material	**Sand/M sand**		**Proposed Use**	Drain	
Sample Location	At site/Plant		**Date of Sampling**	27/06/2018	
			Date of Testing	27/06/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	221	221	7.37	92.63	**90 - 100**
2.36 mm	322	543	18.10	81.90	**75 - 100**
1.18 mm	569	1112	37.07	62.93	**55 - 90**
0.600 mm	545	1657	55.23	44.77	**35 -59**
0.300 mm	589	2246	74.87	25.13	**8-30**
0.150 mm	660	2906	96.87	3.13	**0 - 10**
Pan	94	3000			**-**
Remarks :			Satisfactory / Not Satisfactory		

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TEJUS CONSULTANTS

Consultant's Representative

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Test report on Compressive strength of concrete cubes

Project	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s. K Damodar & Co.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	18/06/2018	16/7/2018	28 days	8.145	22500	460	20.44	20.19
2	18/06/2018	16/7/2018	28 days	8.162	22500	452	20.09	
3	18/06/2018	16/7/2018	28 days	8.142	22500	451	20.04	

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Bruhat Bengaluru Mahanagara Palike

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KERB STONE (CORE) TEST REPORT		
Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/s. K Damodar & Co.
Name of Work	:	Special Repair to School Building and Gymnasium Building and with Gym Equipments at Siddarta Nagar in Ward mo 16, Providing Play Equipments (out Door Gym) in Jalahaali Govt School in Ward no 16 and Providing Play Equipments (out Door Gym) in JP Park inside in Ward no 17.
No.of Sample Tested	:	03
Date of Testing	:	09/07/2018
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.412	2468.59	1.70	0.960	28.32	14.42	15.58	14.95	18.69
2	50.00	85.00	0.410	2456.60	1.70	0.960	28.42	14.47	15.63	15.01	18.76
3	50.00	85.00	0.406	2432.64	1.70	0.960	28.60	14.57	15.73	15.10	18.88

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 90 days from the date of testing.

Assistant Executive Engineer
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